Jan Jiménez Serra

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Education

M.Sc. in Computer Science — Sep. 2020 – Present
Trinity College Dublin — *Dublin, Ireland*
Specified in Virtual Reality, Machine Learning, and Computer Graphics

Bachelor's in Computer Engineering and Information Systems — Sep. 2016 – Dec. 2019
Universitat Pompeu Fabra — *Barcelona, Spain*
Studied a semester at *Ajou University* — 2017, *Suwon, South Korea*

Experience

Software Engineer Internship — March 2017 – Sep. 2017
ALTRAN, Information Services and Technologies — *Barcelona, Spain*

- Joined a team developing Gaia, a Web Application aimed at giving the best solution to data and knowledge management. Created algorithms and methods in Java, such as user verification.

Full-stack Software Engineer — April 2018 – Dec. 2019
NexoTech — *Mataró, Barcelona (Spain)*

Led project about designing and building of a full-stack web application for people counting on enclosures with IoT and Deep Learning implementations.

- Implemented a Machine Learning model with Keras and Python that recognizes gender and age. Used AWS Rekognition in production for better speed and accuracy.
- Built the back-end and API with Java and Spring as the framework, used ReactJS for the front-end.
- Designed and implemented the database structure in MySQL.
- Used and installed infrared sensors for people counting.

Freelance Python Teacher — February 2021
Projecte SocialNEET — *Mataró, Barcelona (Spain)*

- Taught beginner level Python and Machine Learning for a governmental project aimed at unemployed people.

Projects

3D Copy & Paste | *ARKit, Swift, Python, Blender* — March 2020

- Developed an iOS app that obtains a 3D mesh using LiDAR from a 4th Gen iPad Pro, and seamlessly sends the mesh to a 3D modeling program (Blender) by pointing the camera to it.
- Blender Add-on written in Python that retrieves the model and positions it at the centroid between the camera picture and the computer screen.

What Movie To Watch | *ReactJS, JavaScript, HTML, CSS, Git, API* — March 2020

- Designed and developed a Web Application that recommends films after the user has provided liked films.

More Web and Mobile applications projects in an abundance of programming language, frameworks and libraries can be found at: github.com/janjs

Skills

Programming Languages: *Proficient:* **Java** · **Python** *Experience:* **JavaScript** · **C++**(*Computer Graphics*).
Frameworks: React JS · Java Spring · React Native · Django · ARKit · iOS UIKit · Android SDK · OpenGL.
Machine Learning: Scikit-Learn (*Algorithm based*) · Tensorflow (*Neural Networks*).
Database Management: SQL · Google Firebase · OracleSQL · MySQL · PL/SQL · NoSQL.
Libraries and Developer Tools: Git · JSON · Redux · Android Studio · IntelliJ · VS Code · Firebase · XCode.
Web Markup Languages and CMS: HTML5 · CSS3 · WordPress · Shopify · PrestaShop.
Others: Object-Oriented Programming · Computer Graphics · Machine and Deep Learning.

Spoken Languages: English(*Level C1 - Cambridge English: Advanced*) · Spanish(*Native*) · Catalan(*Native*).